Dutting the Finishing Touches to the (

The Big Ditch About Completed=Permanent Cities In Course of Erection - Facts About the Canal.

ty-seven-mile ditch reaching from the Caribboan Sea to the Pacific ocean, is almost com-When finished it will cost United States Government \$375,200,-000. Of this amount about \$150,000,-000 was paid out for salaries and

The Americans began work on May 4th, 1994, with 746 employees. These were increased from time to time until the number at the busiest period reached 44,661. Between five and six thousand of the workers were Amer- at far less cost. on the ditch as laborers,

tions coupled with excessive humidity everybody was given a fair naturally brought Hiness to the northerner, and during the early days many made public, and each employee from squad had relaxed its vigilance,

Each employee was given thirty days' sick leave each year with pay and free medical attention. Twentylour out of every thousand employees have been constantly on sick leave, most of them in the hospitals which have a capacity of about twelve hundred patients. Six weeks' vacation with pay was allowed to the American employees,

# Canal Commission Abolished,

On April first of this year the Isth-George W. Goethals as Governor.

times their plans were unjustly at- later. tacked by a hostile press. Time and again muck rakers visited the canal and when they were unable to find the Southern Railroad, made the suggesslightest trace of graft they set about to criticise certain plans of the canal. For instance, the Gatun Dam was reported as sinking. This is one of the world's greatest pieces of engineering, and was set up to dam the chagres River and form Gatun Lake, the largest artificial body of water in the world. The construction of this dam. alone cost thirteen and one half mil-It was commenced in 1906, and finished in 1914. For the the dam were assailed in the most anca," one of the passenger steamers bitter terms, but the engineers never belonging to the Panama Railroad changed their plans, and after it was rakers were loud in their praise,

Others took up the slides in Culebra Cut, and one sent a report to his paper submarines. These little boats, five in diet an increase in exports to the

criticism, yet every canal employe will tell you that he has been able to support his family on food just as pure as that sold in the United States and icans who filled such positions as engi- well housed-far better than those neers, foremen, clerks and policemen, who are engaged in factory labor in Of these the greater number came the United States. Of course, once in from Pennsylvania. New York was a awhile a disgruntled workman gave close second in furnishing employees out a story of unfair treatment which for the Canal and Ohio third. Men upon investigation was found to be from eighty-seven countries worked merely a trifling disagreement between the foreman and blmself. The women, The average temperature of the too, sometimes complained-perhap Zone, which comprises 448 because Mrs. Brown had better looking square miles, is \$5 degrees. The vege- dining-room furniture, or the apart-tation is tropical and the rainfall ment of Mrs. Jones had larger rooms. heavy, the annual average on the Atlantic side being 130 Inches, and on agree that life on the Canal Zone is all the Pacific 70 Inches. These conditions that could be wished for, and that

Concrete Filter House

Every act of the Commission was of the workers died from malaria. In the chief engineer to the poorest la-1995 there was a yellow fever epidemic borer was given a hearing if he felt thirty-seven employees were that he was not receiving his just When Colonel deserts, Colonel Goethals for several William C. Gorgas came to Panama to years held open court every Sunday clean up, the death rate was 49.94 per morning for the purpose of hearing In 1914 in the same places it complaints. Indeed, this court has vas 21.18, cut down more than one- gone down in history as one of the half. This decrease in the death rate most remarkable ways of dealing out vas brought about by cleaning up the justice. Each member of the Commistitles, killing the mosquitoes and en- sion had a special duty-a duty which forcing a rigid quarantine. Thirteen was so well performed that one of its employees were required in members, Colonel D. D. Gaillard, gave the sanitary department to carry out his life in that line-a martyr to the the reform in cleanliness, and it cost greatest work ever undertaken by the Government \$16,500,000 to make man. When the Commission completthe place a livable one for the white ed their task the canal was practically The money was well spent, for ready for small steamers and was it is doubtful whether the canal could opened to them on the tenth day of have been built at all if the sanitary May. Had it not been for the activity of the Cucuracha slide the canal as During the period extending over far as the waterway was concerned, ten years of American rule on the would have been completed a year be. Zone about six thousand employees fore its formal opening, which has died, eleven hundred being killed by been set for January 1st, 1915. As it being run over by trains, hit by cranes, it will be ready for the use of all ves- such a test has been made. sels in September.

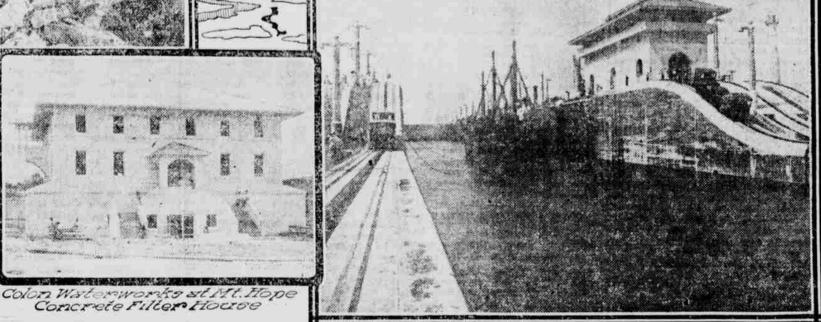
# Cucuracha Slide Troublesome.

channel through Cluebra Cut is at the locks—a rise of eighty-five feet, present about two hundred feet wide, The U. S. S. "Severn," tender to the one hundred feet less than it will be sub-marines, has made a number of canal was put into effect, with Colonel the water would give stability to the on an inclined cogwheel track. Ever since the canal work was taken haps it has in a measure, but not as the locks under her own steam, over by the Americans a Canal Com- completely as Colonel Gaillard had Another bit of interest in lockage mission has existed. From time to hoped. The fight against Cucuracha time changes were made by the re- led to Colonel Gaillard's death. Day through the Miraflores locks. tirement of different members. There and night he planned against its prog- cargo came down the Pacific from was, however, little change made in ress, only to meet defeat. Finally, the policy of that body after 1908, nature could stand no more and the piles were lowered into the water and when Colonel Goethals became its faithful officer came North for rest chairman. The labors of the Commis- and medical treatment—a physical sion were by no means easy, and many and mental wreck, dying a few months

# "Gaillard Cut."

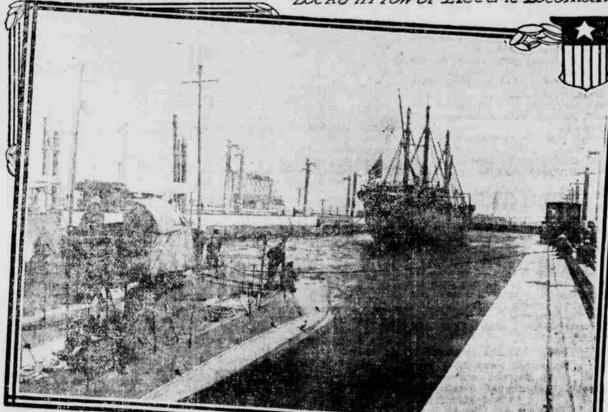
Recently President Finley, of the tion to President Wilson that the name Culebra Cut be changed to that of "Gaillard Cut" as a memorial to the dead officer. President Wilson was pleased with the suggestion and it is more than likely that he will act upon It favorably and thus perpetuate the name of the great engineer.

Gatun Locks Completed First. first, and have been so thoroughly first two or three years the plans of tested that early in June the "Allinot as interesting as the using of the



in North Section of West Chamber Ostun Lock:

U.S.S. Severn Leaving Upper East Chamber of Gatun Locks in Tow of Electric Locomolive



Going Throw Gatan Locks

pairs completed on the boats. The ballast was then removed, the locks refilled, and the little boats sailed out accidents, such as dynamite explosions, is, barring accidents, it is believed that of the canal. This is the first time

The Gatun locks are each 1000 feet long and 110 feet wide—barely large The Cucuracha slide has been the enough to accommodate the "Imperabete noir ever since the work began, tor," which is 919 feet long and 96 and even in the days of the French feet wide. About an hour and a half it was the hooden of progress. The will be required to raise a ship through

when completed. The slides there trips and the electric locomotives have have already reached the enormous proved a success. Four of these matotal of 25,000,000 cubic yards of chines are used, two for the purpose earth and still the monster Curcuracha of towing the vessel while the other mian Canal Commission was abolished resists control. Colonel Gaillard, who two are used to keep the ship from and the permanent organization for was the engineer in charge of the Cen- bumping the sides of the locks. In the operation and maintenance of the trai Division since 1908, believed that climbing from lock to lock they run sides and stop its progress, and per- vessel will be allowed to go through

> was the towing of a cargo of piles Seattle and anchored off Balboa. The lashed together. They were then towed through the canal in rafts. The water in the Miraflores locks was Lake for the first time during this ex- ate the canal and about twenty-five be needed in the working of the locks, periment. The electric locomotives tept the rafts in position and brought them through without once bumping

## against the lock walls. First Commercial Use Of Canal.

The first commercial use of the total earnings from that time until June 1st were \$7.356.12, the charge on the cargo being \$1.20 per ton. sengers are carried free. Already passage through the new waterway. New York is brought five thousand fleet, made a round trip through the miles nearer to the west coast of completed in 1913 these same muck locks. This experiment, however, was South America. The commercial value of the canal cannot be estimated

the South Section of the Exat Chamber, Lower Gatun Lock ports, thus cheapening the freight on soon as they are no longer needed.

hundred employees will be required. Balbon A Real City. Balboa, at the Pacific terminal, will

likely become the big city of the Canal Zone, as many of the employees who have charge of the locks will live canal was made on May 18th, and the there. Great dry-docks, wharves, repair shops and warehouses and other facilities to the canal are in course of there is a congestion of freight steam- cranes to be used in handling wrecks begin in the early fall. Already these York and San Francisco are saved by too, will be located at Balbon. A large ships at this point. Buyers, too, will

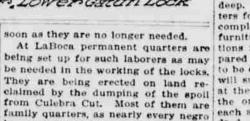
ditions existed.

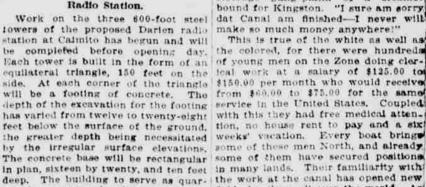
All sorts of ridiculous stories were filled ballast tanks of each vessel held circulated. Even the Commissary Determined the form on for some time. This is carried out ports have been circulated that an attempt would be made to dynamics the station are thousand miles nearer to the station are the s

the wool from that country. It will At LaBoca permanent quarters are brought up to the level of Miraffores cost about \$4,000,000 annually to oper- being set up for such laborers as may

> has some member of his family to keep house and cook his meals.

Canal Fortifications Guarded. The canal will be heavily fortified at each end, and the army work there tion of about one hundred and ten feet by many that President Wilson will erection, several of which are at Bal- is nearing completion. The mounting above the ground between the steel One of the monster 270-ton of the powerful guns and mortars will tower and the power plant. The Gatun locks were completed ors anxious to pass through the canal or locks will fortifications are being carefully completed a new passenger station at rest, and have been so thoroughly as eight thousand miles between New be kept at that point. A fuel station, guarded and no photographing is perguarded and no photographing is per-mitted anywhere near them. On April crete structure with a covered carriage \$15,000,000 revenue per year will be number of transients may be counted 24th the Secretary of War issued in- entrance. The first and second class needed. Traffic experts estimate that upon as many people will leave the structions asking that increased vigilstructions asking that increased vigil- passengers have different waiting for the first two years the average ence be exercised at these points and rooms fitted out with wash-rooms, tonnage will be 10,000,000 tons, not at the locks. Governor Goethals at Heretofore, both first and second class enough at \$1.20 per ton to make the Christobal, the Atlantic terminus, is once requested the commanding officer passengers purchased their tickets at capal self-supporting from this alone, iready a thriving town, and the new of the 10th U. S. Infantry, a regiment the same window. This proved a dislocks as a dry dock for the fleet of at present, but those in authority pre- already a thriving town, and the new of the 10th U. S. Infantry, a regiment the same window. This proved a dis-Washington Hotel will draw hundreds which has been stationed on the Zone agreeable feature of travel, as fre- nopolize the business of supplying coal that the sides of the cut were smoking number, were completely submerged ent especially of staple products of the of winter tourists from all parts of the quently a white woman was compelled and provisions and operating repair while the filling process was going on. South, such as cotton, lumber, iron and world to the Isthmus. This hotel, like guarding of the canal property. This to get in line with a lot of negroes. In facilities which will, Gold Hill. The report spread over the They rested on specially constructed coal. Eastern machinery will enjoy the Tivoli at Ancon, is run by the Gov- officer sent two companies of the regisountry and experts were sent to the cradles directly over the culvert open- cheaper rates to Pacific ports. Bulk ernment and everything is first class, ment to Gatun, one company to Pedro road's long established custom of pro-Isthmus only to find that no such con- ings in the lock floor The water came products like lumber, wool, hides, comparing favorably with the winter Miguel, and one to Miraflores. It is viding quarters for employee, the sec- capacity is provided, and 160,000 bar-





ters for operators has been practically fields for them all over the world. As completed and will be provided with to the heads of the divisions they, too furniture by the Navy. New radio sta. are scattered. tions for relatively local use as com- the Army will be sent to other posts. pared with long distance stations are to be erected at Colon and Balbon and will supplant the ones now in service at these points. The towers resemble the ones at Arlington, Virginia, and months the great parade of ships will each station will have two three hun- pass through the locks and the great dred feet towers six hundred feet waterway will be declared "open to apart. The present wooden masts at Colon, about two hundred feet high. Daniels will stand on the bridge of the and the antennae of the present Balbos station are suspended at an eleva- through, and it is confidently expected

Balboa Town Site Permanent Quarter Under Construction

nthwest Wing Wall looking North Across Miraflores Lock

Type of Electric Motor which will fow Vessels through the Canal

locks, and on one occasion several sus. cane or wooden slats. Other stations picious characters were arrested after are in course of construction but the

with the Naos Island breakwater ics all stations will have covered platwhich had a tendency to bulge after forms. the fashion of the Cucuracha slide, but happily this has been overcome, and a firm foundation for the breakwater secured. These were constructed on will be closed as the necessity for so he same plan as the foundation for the over-sea railway of the Florida

East Coast Railroad Company. The lighting facilities of the canal have been entirely completed except for one or two lighthouses which are till in course of construction. The ight effects on the canal at night are heautiful and can be seen for many

towers of the proposed Darien radio station at Calmito has begun and will Each tower is built in the form of an will be a footing of concrete. The concrete base will be rectangular

a large amount of dynamite had been one at Panama Cty will be the finest and will contain the general offices. Some difficulty has been experienced Owing to the sudden rains in the trop-

Workmen Leave With Regret. Several of the schools which now

embrace twenty or more nationalities many no longer exists. As each section is completed the employees bedropped usually leave the Zone at once -many of them with the greatest ro-

"Working for the Americans sure do pay," said a Jamaica negro as he dragged an old steamer chair up the steerage gang-plank of a steamer bound for Kingston. "I sure am sorry dat Canal am finished-I never will

make so much money anywhere!" This is true of the white as well as the colored, for there were hundreds of young men on the Zone doing cler-The from \$60.00 to \$75.00 for the same some of them have secured positions Those who belong to

> President Wilson Likely To See Opening.
>
> Very little remains to be done on the gigantic contract and before many

> the world." Secretary of the Navy first American battleship stand beside him. Opinions differ as to whether or not